



# Record C 127 X

Underfloor swing door operator

Your global partner  
for entrance solutions

## C 127 X

### High performance and Best in class

The C 127 X is the world's first underfloor drive for swing doors with protection class IP69 – completely watertight! The drive installed in the floor allows through the use of a cardan direct drive, all-glass doors with a door wing weight of up to 600 kg (1323 lbs) to operate elegantly and silently.

#### **Invisible underfloor operator** – tried and tested, powerful and silent

The two-component modular die cast housing with integrated electronic and control unit can be used for both single and double leaf applications. The unique design of the drive allows it to be mounted very close to the façade, which is a great advantage for installation flexibility. With a wide range of options and accessories, the C 127 X can be used flexibly in an extensive variety of applications.

The concealed drive supports the design freedom of discerning architects to design an impressive door for entrances in ultra-modern buildings. The maintenance-friendly system is recessed into the floor and if required, covered invisibly with the matching floor covering, making it blend seamlessly into the door area.

Due to the integrated wind damping, the door slows down in case of heavy winds and thus prevents damage to the facade, while also increasing safety for pedestrians.

#### **Complies with following standards:**

EN 16005, EN 18650, ANSI 156.19, BS 7036



**The C 127 X swing door operator can handle door wing weights up to 600 kg.**

# C 127 X – Center & Offset

The C 127 X swing door operator is available in two versions. One with a central and one with a shifted pivot point. Both of the variants have their own benefits.

## Center

In the centre design, the door leaf is placed in the middle of the operator and could be used as a lower door mounting. In case of hinged doors it could be used with a sliding arm which will be mounted directly at the frame.

The lateral clearance of the lever arm is 105 mm; the clearance of the lever arm to the front is 53 mm. In order to make use of the slightest projection, these two versions can also be installed at a 90° angle to the door sill.

## Offset

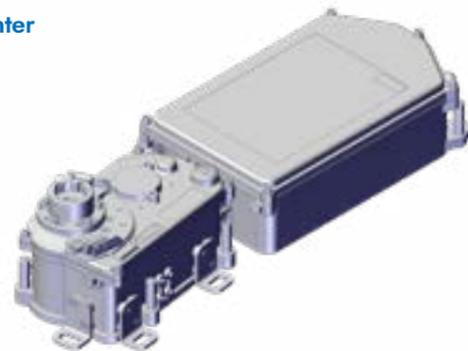
In the OFFSET version, the drive axis has been shifted from the centre to the edge of the housing, thereby reducing the clearance to the side wall to only 50 mm. This ensures that expansion joints or moisture barriers installed in front of the door sill are not affected and the drive can be mounted completely on the inside of the building.

For double-leaf door systems, another, symmetrically identical, housing shape has been developed. The doors can also be opened either inwards or outwards.

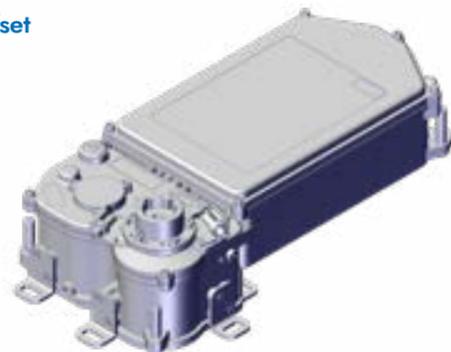
## Impressive door openings

The opening angle is flexible and can be adjusted up to a maximum angle of 120°. This gains the benefit that the C 127 X with the huge opening angle and the clear passage width enables impressive entrance solutions.

Center



Offset



# Features and Options

## Fully integrated; encapsulated to repel dirt and liquids

The two-component modular die cast housing with integrated electronic and control unit fulfill the highest Protection Class and reached the IP69 rating. The C 127 X is the world's first underfloor drive for swing doors which is completely water and dust tight, withstanding extremely harsh conditions.

Melted snow and ice or rainwater, as well as washing liquid from floor cleaning machines, do not impair the underfloor drive performance.

## Integrated wind load brake

Our C 127 X is not only protected against water. Wind also has a great influence on the doors, particularly in coastal and mountainous regions, where it builds up enormous forces. Without braking, there is a risk of damage to the door wing and drive motor upon impact with the end stops. These dangers can be avoided by using a wind load brake, which acts on the drive motor.

Too high speeds of the door wing, caused by the influence of persons, wind gusts or heavy winds, are reduced by the integrated wind load brake. This prevents uncontrolled impact on the end stops. The brake becomes active during the last 20° of the opening angle both before the open position and before the closed position. The wind load brake can be extended to an effective range of 30° for doors that are particularly exposed to the wind.

## Inverse safety option

In the normal version, the C 127 X opens doors using a motor and closes them with spring force. The inverse version reverses this principle, but remains almost unnoticed in daily operation.

If a building is filling with smoke and the drive is activated by an external smoke and heat extraction system, the C 127 X with inverse function opens reliably – thanks to opening by spring force, even in the event of a power failure. This enables the door to be used as an air vent opening for a targeted fresh air supply or for smoke and heat extraction.

## Use

The C 127 X swing door operator is suitable for single or double-leaf framed glass doors or all-glass doors. The operating modes can be selected conveniently using the Record BDE-D electronic control unit. The backlit display of this unit provides information at all times about the current operating condition of the door in the local language and in plain text. This electronic unit also provides the service port, which allows the connection to the wireless service app.

We moreover offer a range of sensors, contactless and touch-sensitive buttons and matching accessories, coordinated with our products, which excel through outstanding actuating performance, the highest degree of reliability and optimum safety.

## Benefits

Powerful – up to 600 kg door wing weight
IP class 68 and IP 69 certified – watertight operator
Invisible, noiseless door drive
Suitable for double-leaf door systems (master/slave)
Integrated wind load brake
Designed for easy and fast installation
TÜV approved with 1. Mio cycle test!
Low-maintenance & service-friendly thanks to service app

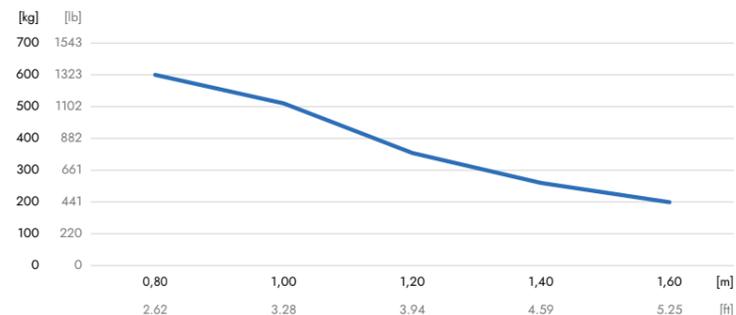
## Options

Stainless steel cement box
Customized door lever
Threshold plate or Terrazzo tray for invisible integration into the building
Sliding arm and sliding rail (required for hinged doors)
Operation unit for tablet access
Various actuating elements and fuse sensors

# Installation situation & possibilities

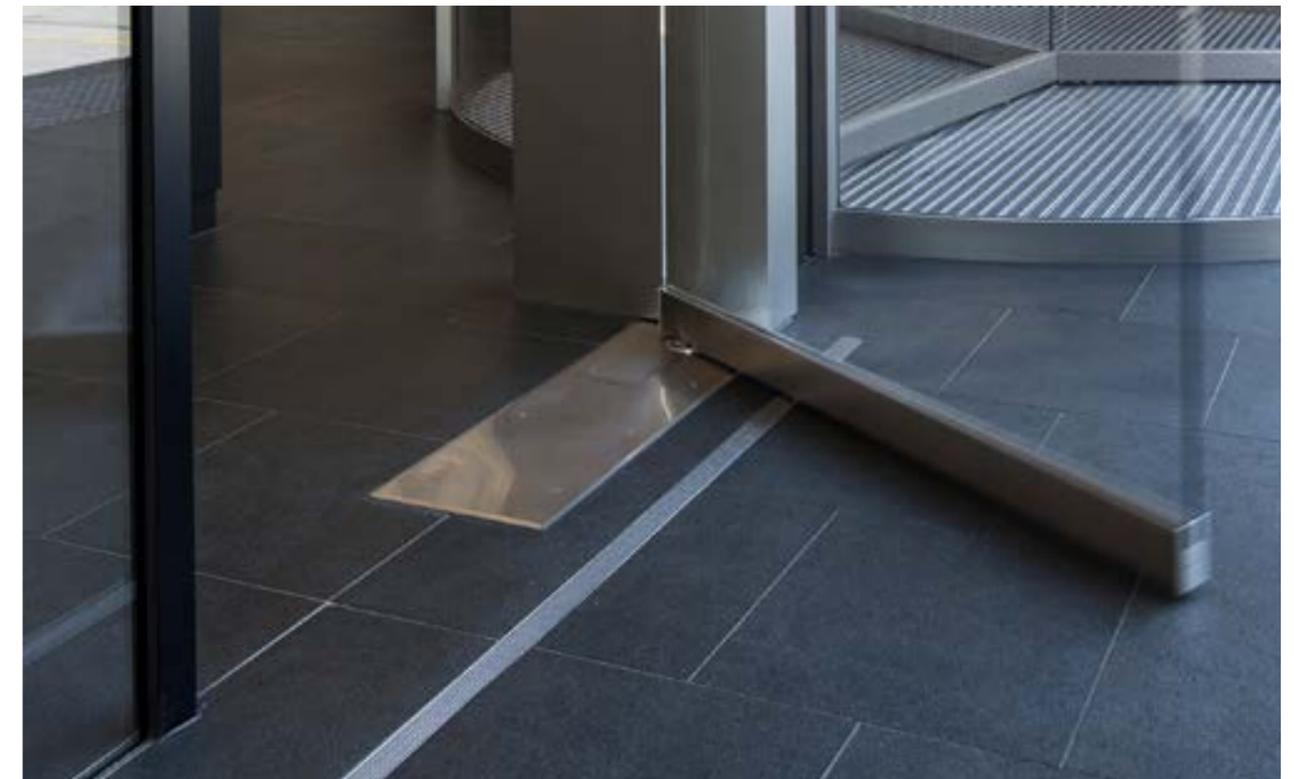
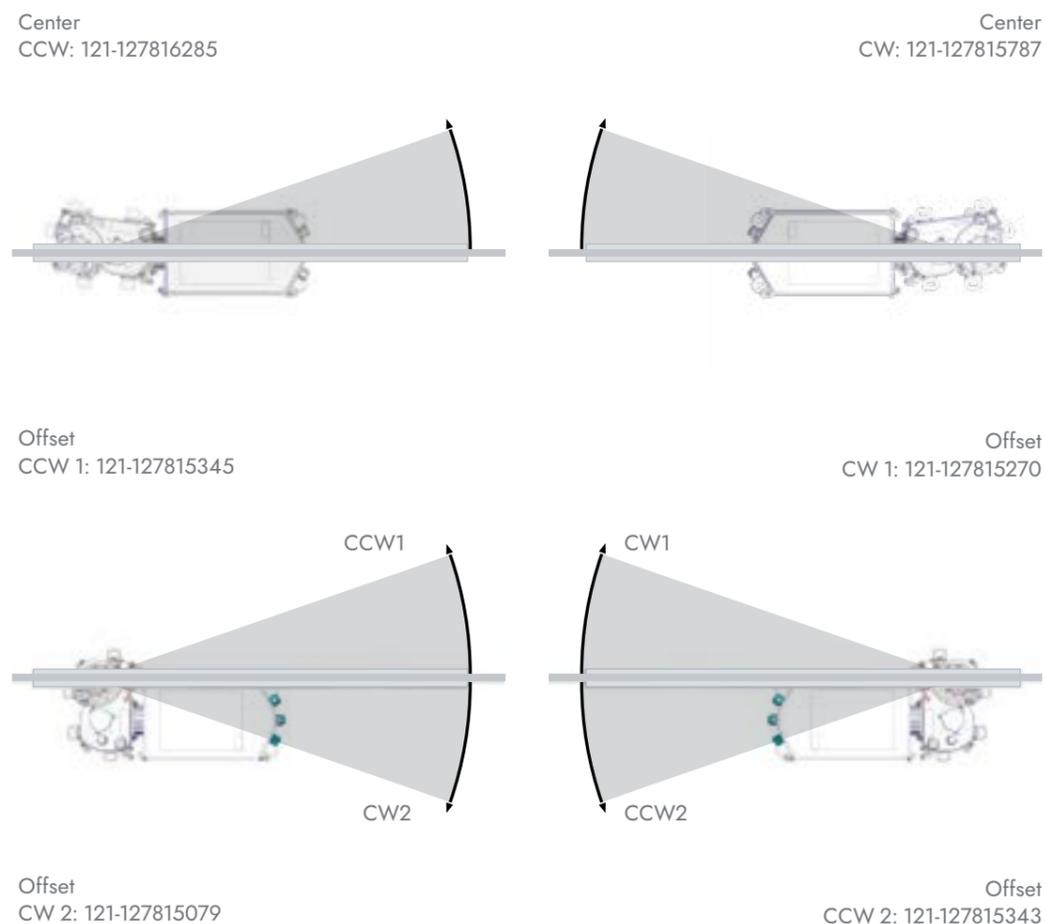
## Door wing weights and door widths

The following performance diagram helps to identify the suitability of the operator with the door.



## Installation situation & possibilities

The C 127 X Center could be mirrored to open in the opposite direction. CCW (counterclockwise) / CW (clockwise)



## Operating modes

The following operating modes can be selected:

### Manual mode

In manual mode, the drive is used as a mechanical door closer. The door can be opened without motor resistance and closes purely mechanically with spring force.

### Power Assist

Power Assist is a function that allows a door to be opened manually, but opening movement is motor-assisted. The main advantage is that even heavy doors can be opened effortlessly with minimal effort, since the motorised assistance balances the initially high moment of inertia. This is necessary for children or elderly people in particular, who could otherwise have difficulty in applying sufficient force to open a heavier door.

### Touch control

With the touch control system, the door requires only a short, fixed pulse to be opened automatically. The door closes after a selectable time span of 0 – 60 seconds has expired.

### Automatic mode

In automatic mode, an electronic opening pulse is sent to the door via a sensor, a key switch or a button.

### One-way traffic

One-way traffic ensures that store owners can finish work on time: The opening pulse from the external sensor, switch or button is suppressed, so that the door only reacts to people wanting to leave the store.

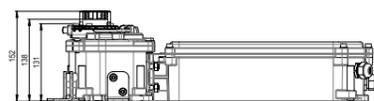
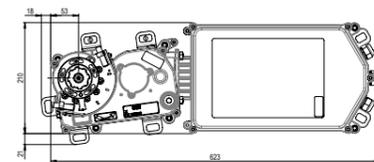
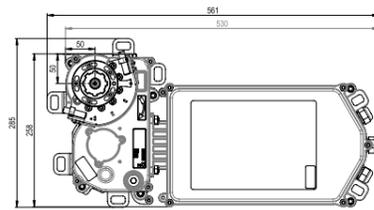
### Locked

In the locked state, the powerful motor uses full power to resist manual opening of the door wing. For effective burglar protection, the door must also be secured with locks.

# Technical specifications

## Specifications

	Metric	Imperial
Opening width – One wing	800–1800 mm	2.6–5.9 ft
Opening width – Two wings	1600–3600 mm	5.2–11.8 ft
Opening angle	70°–120°	
Opening and closing speed	adjustable	
Maximum passage height	4000 mm	13.1 ft
Door wing weight (max)	600 kg	1323 lbs
Maximum moment of inertia	170 kgm <sup>2</sup>	
Permissible wind speeds drive in operation	20–60 km/h	12.4–37.3 mph



## Electrical data

Rated voltage [VAC / Hz]	100–240 / 50–60	
Rated power [W]	67	
Consumption in idle mode [W]	25	

## Technical data

	Offset		Center	
	Metric	Imperial	Metric	Imperial
Dimensions drive (LxWxH)	561 x 258 x 152 mm	22.1 x 10.1 x 5.9 inch	641 x 231 x 152 mm	25.2 x 9.1 x 5.9 inch
Dimensions with stainless steel cement box (LxWxH)	840 x 320 x 173 mm	33.1 x 12.6 x 6.8 inch	840 x 320 x 173 mm	33.1 x 12.6 x 6.8 inch
Position rotation axis	50 x 50 mm	1.96 x 1.96 inch	105 x 53 mm	4.13 x 2.08 inch
Weight	19 kg	42 lbs	19 kg	42 lbs
IP classification	IP 69		IP 69	
Rel. humidity	up to 85%, no condensate		up to 85%, no condensate	
Temperature range	-15 °C...+50 °C	5 °F...122 °F	-15 °C...+50 °C	5 °F...122 °F

## Accessories

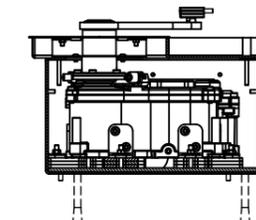
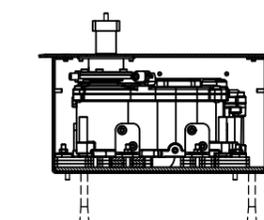
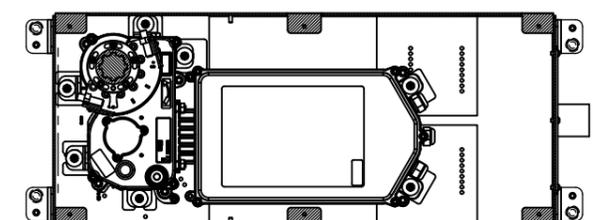
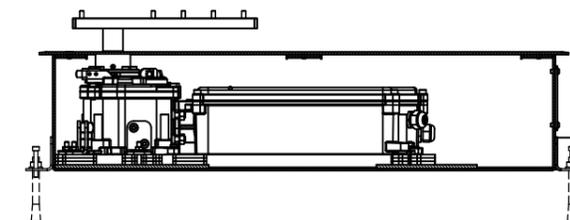
Stainless steel cement box
Stainless steel cover
Terrazzo coverpan
Sliding arm
Various door levers
Various adapters for individual door connection
Doorstop
Sensors
Service port



The wide product range in combination with the individual customer-specific adaptations enable the realisation of a unique door design with the highest demands on quality and safety!

## C 127 X – Installation examples

This section is highlighting installation examples with the stainless steel cement box in combination with the threshold plate or the terrazzo tray using the sliding arm or the normal door lever.



# Service and maintenance

For the C 127 X to function at optimal level whilst complying with safety regulations, it is essential that regular maintenance is undertaken. The operator has a unique design with separated gearing and electronics, that are contained in the same housing, reducing the service and maintenance requirements to a minimum.

This is not done automatically during the warranty period and therefore it is recommended that customers sign a maintenance agreement within six months of installation. This will not only minimise downtime but help minimise operating and maintenance costs over the life of the product.

Quality is at the heart of the design of the C 127 X which are manufactured to the highest standards. This gives customers the reassurance that if maintained correctly, the systems will provide trouble free secure access to sensitive and vulnerable areas for decades to come.

Our service technicians are on hand to deal with any queries in an efficient and timely manner. In the event of a malfunction of the automatic door, our schedulers will immediately organise an appointment with a nearby service technician.

Users can install the intuitive i-Record app on tablets and mobile devices to support technicians during service and maintenance work. With a user-friendly interface and downloadable updates, the app supports rapid troubleshooting, and incorporates a help function which gives users the option of requesting remote support.

## How we support you

### Service agreements

Flexible service packages
Local compliance
Preventative maintenance
Safety and quality checks

### Emergency calls

Fast response
First-time fixes
24/7 priority service
Original spare parts
Service all doors

### Modernisation and upgrades

Extending lifetime
Reduction of energy costs
Changing needs
Meeting norms
Improving performance level

### How else we can support you

Digital & connected technology
Budgeting
Technical documentation
Training





[www.record.group](http://www.record.group)

Headquartered in Switzerland, the Record group sells its products and services across the globe and is directly present with subsidiaries in many countries.

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